Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 08/10/2006	Task #: 2006081009043901001	Request #: 20060810090439
Procedure: ILS OR LOC RWY 36 AMDT 6D		Airport ID: KMCW	Airport: MASON CITY MUNI		Reimbursable #:
City: MASON CITY	ST: IA	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID: MCW	Fac. Type: ILS	Specialist: SUE CRUMB			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	04/18/2011	02/27/2012	LONNIE EVERHART	
QA:	02/27/2012	03/01/2012	STEVEN SZUKALA	
Liaison:	03/01/2012		Terrell	REQUEST POSSIBLE TABLE TOP REVIEW

P3

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

pg 4 of 4

MASON CITY, IA MASON CITY MUNI (KMCW) ILS OR LOC RWY 36, AMDT 6D ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): JUGTO-INT, ORIG; PICDI-INT, ORIG; SURFF (MC) LOM, REV 4; WOTVI-INT, ORIG; (INFO ONLY) MASON CITY (MCW) VTAC, REV 14.

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.9568:

MASON CITY, IOWA

AL-667 (FAA)

ILS or LOC RWY 36

MASON CITY MUNI (MCW)

LOC I-MCW	APP CRS		
109.5	355°	Rwy Idg	6501
		THRE	1193
		Apt Elev	1214

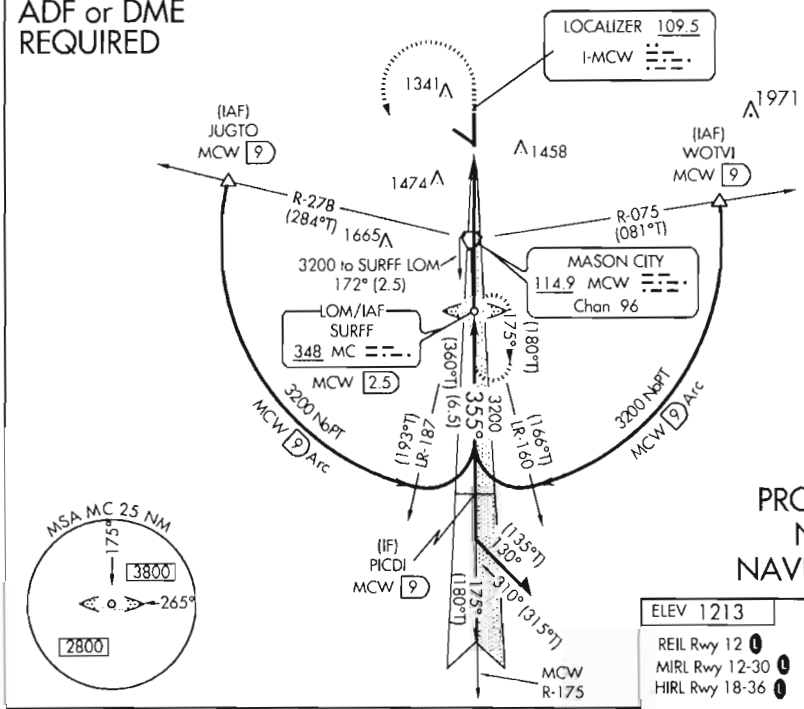
When local altimeter setting not received, use Charles City altimeter setting and increase DA 87 feet and all MDA 100 feet; increase S-LOC 36 Cat C/D and Circling Cat C visibility ¼ mile. ADF Required. For inoperative MALSR, increase S-LOC 36 Cats C/D visibility ⅜ mile. For inoperative MALSR, when using Charles City altimeter setting, increase S-ILS 36 all Cats and S-LOC 36 Cats C/D visibility ⅜ mile.

MALSR

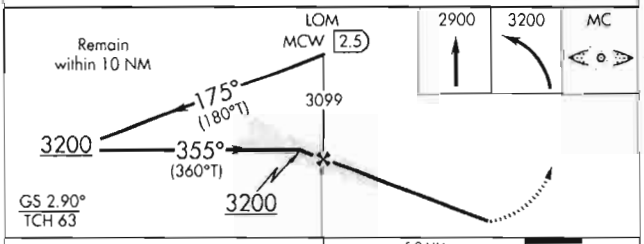
MISSED APPROACH: Climb to 2900 then climbing left turn to 3200 direct SURFF LOM and hold.

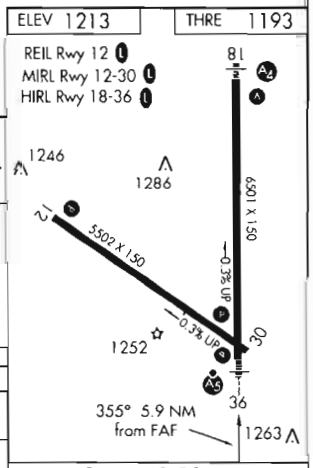
ASOS	MINNEAPOLIS CENTER	UNICOM
120.3	127.3 380.2	123.0 (CTAF)

ADF or DME REQUIRED



PROTOTYPE: NOT FOR NAVIGATION





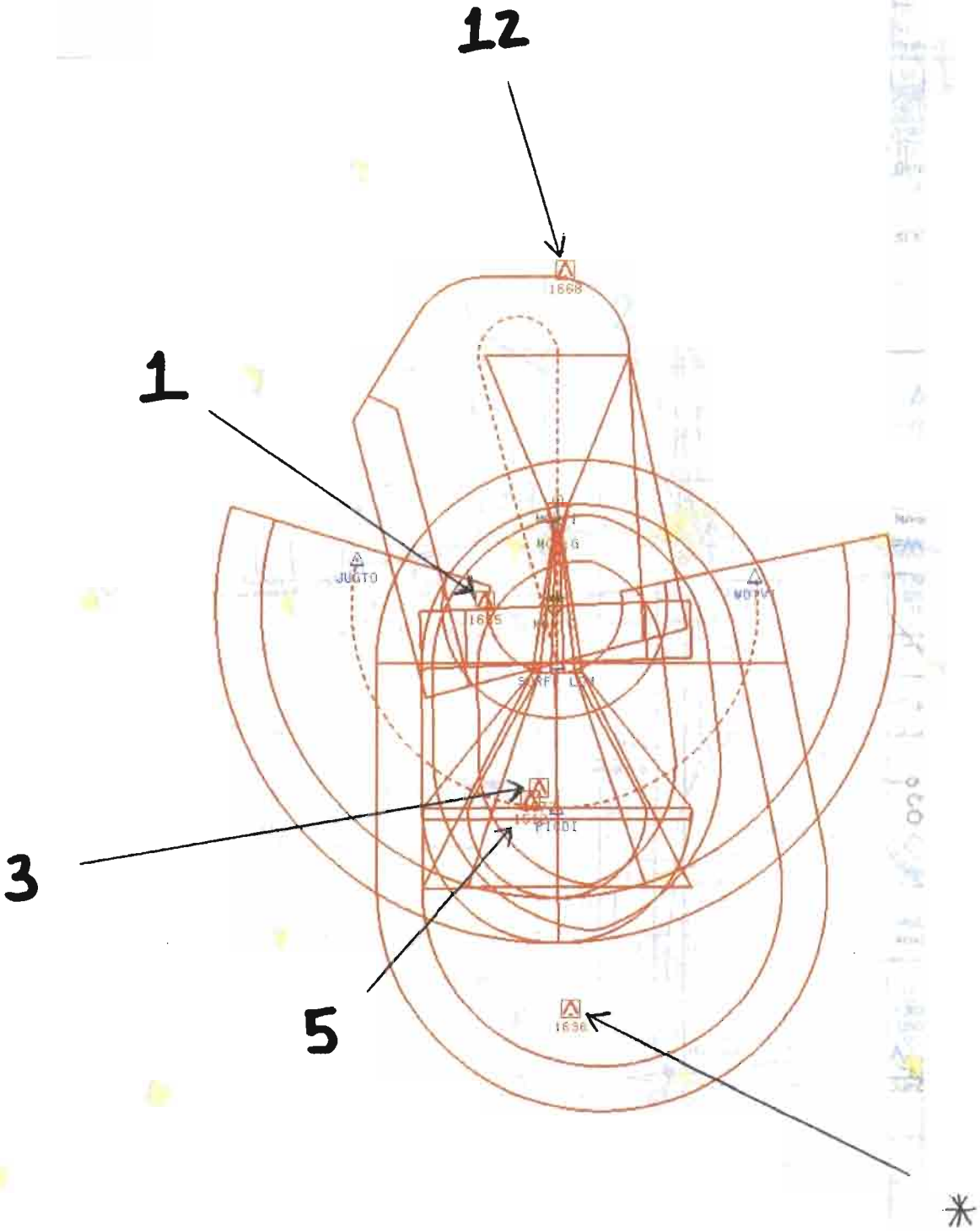
CATEGORY	A	B	C	D
S-ILS 36	1393-½ 200 (200-½)			
S-LOC 36	1700-½ 507 (600-½)		1700-1 507 (600-1)	
CIRCLING	1700-1 486 (500-1)		1760-1½ 546 (600-1½)	1780-2 566 (600-2)

FAF to MAP 5.9 NM

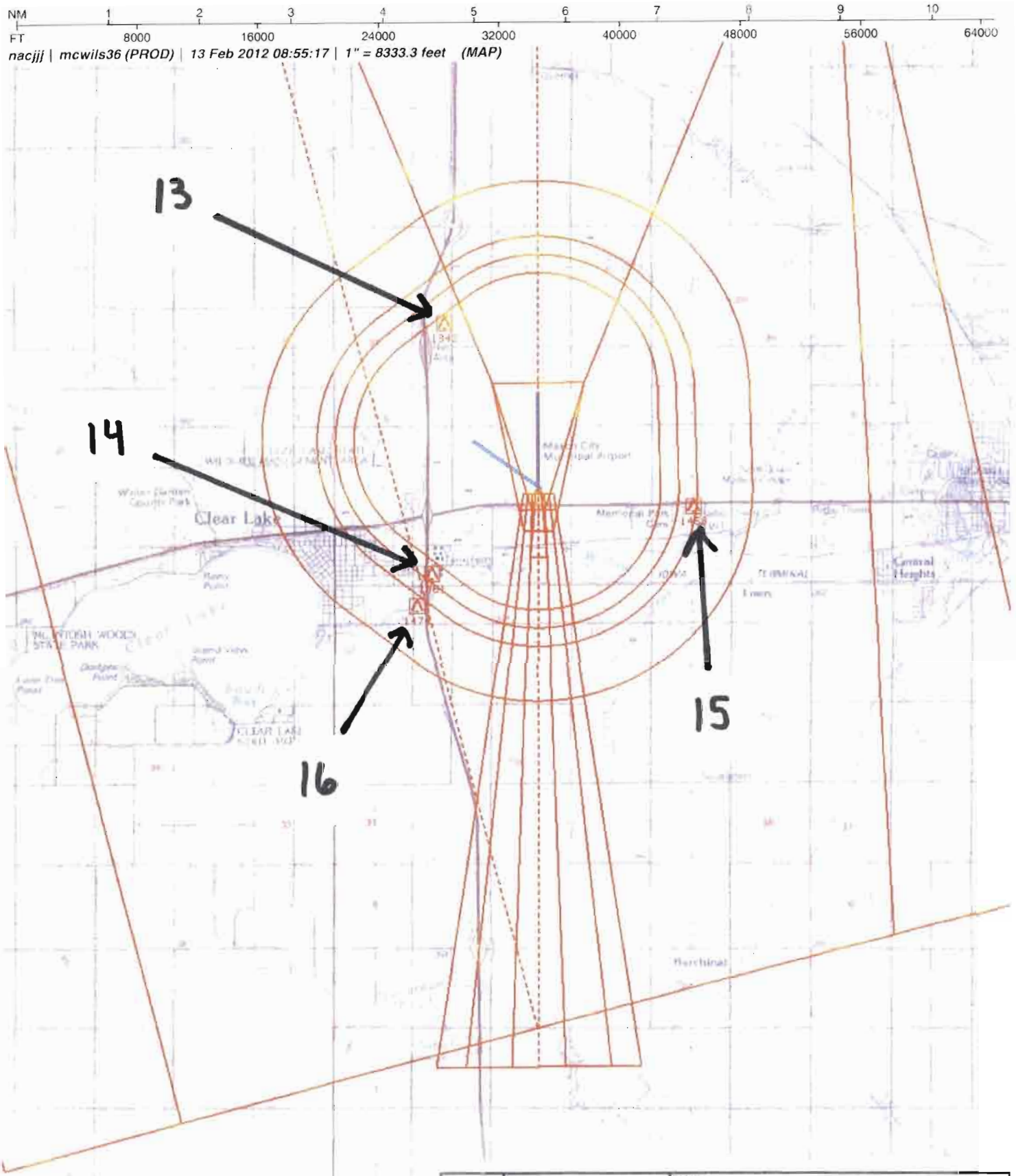
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

NM	7	14	21	28	35	42	49
FT	42000	84000	126000	168000	210000	252000	294000

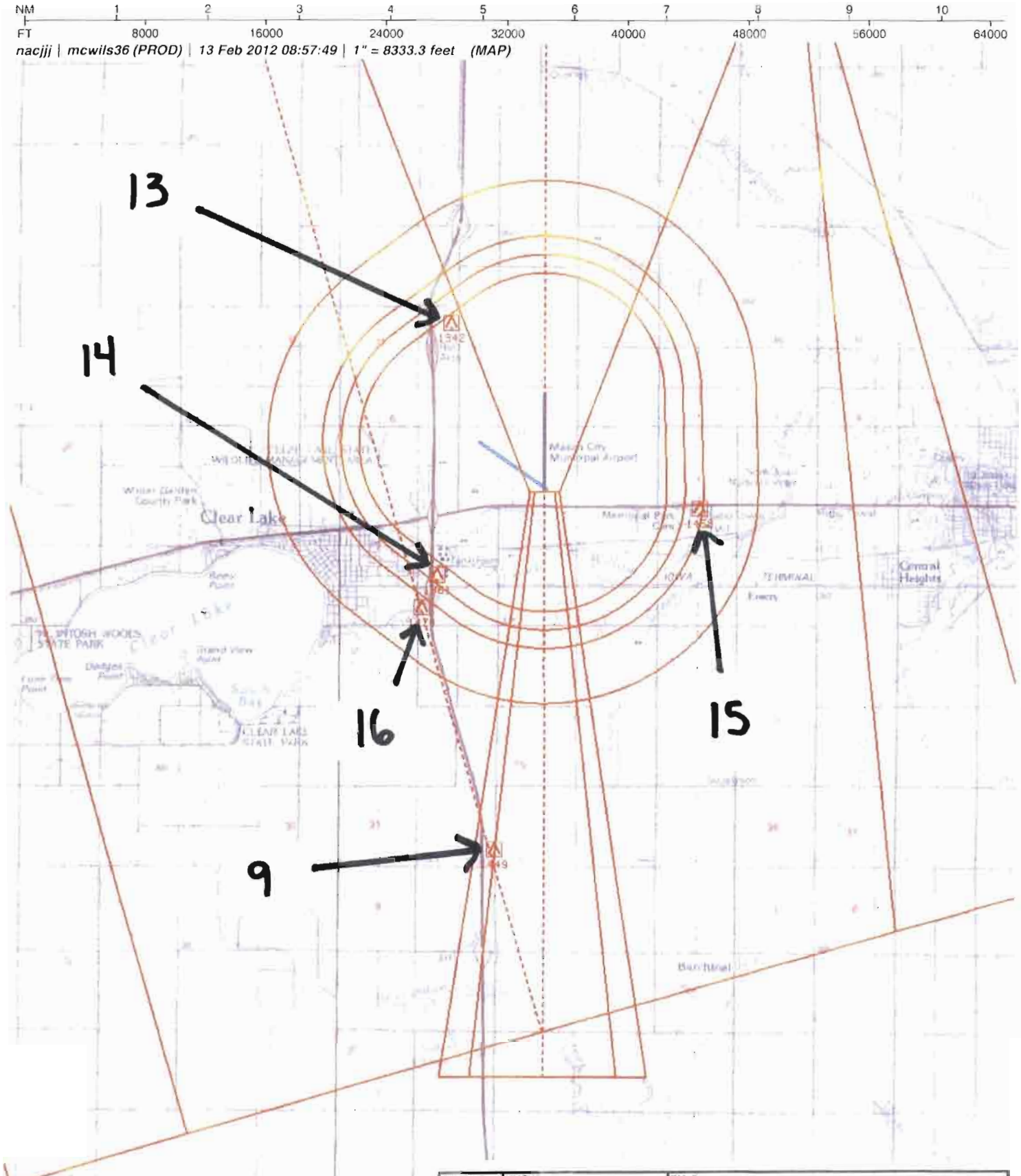
nacjjj | mcwils36 (PROD) | 2 Nov 2011 10:19:01 | 1" = 41666.7 feet (MAP)



Airport ID	KMCW	FM 9			
Apt Name	MASON CITY MUNI	NO	SEGMENT	OBSTRUCTION	ELEV
City	MASON CITY	1	FEEDER /PT	TOWER	1665
State	IA	3	INITIAL	TOWER	1572
Proc ID	ILS OR LOC RWY 36	3	INTERMEDIATE PT	TOWER	1572
Amdt #	6D	3	INTERMEDIATE	TOWER	1572
Scale	1:500,000 (ILS - Precision)	5	INITIAL	TOWER	1512
		● ✳	PROCEDURE TURN	TOWER	1636
		12	MISSED APPROACH	WINDMILL	1668



Airport ID	KMCW	FM 9			
Apt Name	MASON CITY MUNI	NO	SEGMENT	OBSTRUCTION	ELEV
City	MASON CITY	13	CIRCLING CAT A	SILO	1342
State	IA	14	CIRCLING CAT B	TOWER	1361
Proc ID	ILS OR LOC RWY 36	15	CIRCLING CAT C	TOWER	1458
Amdt #	6D	16	CIRCLING CAT D	TOWER	1474
Scale	1:100000				



Airport ID	KMCW	FM 9			
Apt Name	MASON CITY MUNI	NO	SEGMENT	OBSTRUCTION	ELEV
City	MASON CITY	9	FINAL	AAO	1449
State	IA	13	CIRCLING CAT A	SILO	1342
Proc ID	ILS OR LOC RWY 36	14	CIRCLING CAT B	TOWER	1361
Amdt #	6D	15	CIRCLING CAT C	TOWER	1458
Scale	1 100000	16	CIRCLING CAT D	TOWER	1474

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
MCW VORTAC	SURFF LOM/MCW VORTAC 2.53 DME	171.89 / 2.53	3200
JUGTO/MCW VORTAC 9.00 DME CCW (IAF)	PICDI/MCW VORTAC 9.00 DME (NOPT)	9.00 DME ARC (MCW LR-187)	3200
WOTVI/MCW VORTAC 9.00 DME CW (IAF)	PICDI/MCW VORTAC 9.00 DME (NOPT)	9.00 DME ARC (MCW LR-160)	3200
PICDI/MCW VORTAC 9.00 DME (IF)	SURFF LOM/MCW VORTAC 2.53 DME	354.92 / 6.47 (I-MCW)	3200

MISSED APPROACH

ILS: DA
LOC: 5.89 MILES AFTER SURFF LOM/MCW VORTAC 2.53 DME

CLIMB TO 2900 THEN CLIMBING LEFT TURN TO 3200 DIRECT SURFF LOM/MCW VORTAC 2.53 DME AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 354.92 INBOUND.
FAS OBST: 1449 AAO 430505N/0932023W
CHART MCW R-278 AT JUGTO.
CHART MCW R-075 AT WOTVI.

1. PT L SIDE OF COURSE 174.92 OUTBOUND 3200 FT WITHIN 10 MILES OF SURFF LOM (IAF)
2.
3. FAC: 354.92 FAF: SURFF LOM/MCW VORTAC 2.53 DME DIST FAF TO MAP: 5.89 THLD: 5.89
4. MIN. ALT: SURFF LOM/MCW VORTAC 2.53 DME 3200
5. DIST TO THLD FROM OM: 5.89 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1239
6. MIN GS INCPT: 3200 GS ALT AT: - OM: 3099 MM: - IM: -
7. GS ANGLE: 2.90 TCH: 62.6
8. MSA FROM: MC LOM 085-355 2800, 355-085 3800

MAG VAR: 5E EPOCH YEAR: 1980

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | ILS: STANDARD # | LOC: STANDARD @

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 36	1393	1/2	200	1393	1/2	200	1393	1/2	200	1393	1/2	200			
S-LOC 36	1700	1/2	507	1700	1/2	507	1700	1	507	1700	1	507			
CIRCLING	1700	1	486	1700	1	486	1760	1 1/2	546	1780	2	566			

NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHARLES CITY ALTIMETER SETTING AND INCREASE DA 87 FEET AND ALL MDA 100 FEET; INCREASE S-LOC 36 CAT C/D VISIBILITY 3/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART NOTE: ADF REQUIRED.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1214 THRE: 1193 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
MASON CITY, IA	MASON CITY MUNI	I-MCW	ILS OR LOC RWY 36, AMDT 6D	AMDT: 6C
				DATED 07/31/2008

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**ROUTINE**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[ ]	[ ]	[X]	[X]	[X] **ZMP, AMGR**

FLIGHT CHECKED BY

NAME:	FIFO	DATE:
MICHAEL AARON GREENWOOD	**FIOG**	**09/09/2011**

DEVELOPED BY

NAME:	FIFO	DATE:
TERENCE D. SHARP (JOHN JOHNSON)	**AJV-351**	**12/09/2011**

APPROVED BY

NAME:		FIFO	DATE:
LARRY H STROUT	**MANAGER**	**AJV-353**	

CHANGES:

1. CHANGED MCW VORTAC DME DISTANCE TO SURFF LOM FROM 2.54 TO 2.53.
2. CHANGED MCW VORTAC FEEDER COURSE/DISTANCE FROM 171.66/2.54 TO 171.63/2.53.
3. ADDED FIX NAME JUGTO TO MCW VORTAC R-278 INITIAL SEGMENT.
4. ADDED FIX NAME WOTVI TO MCW VORTAC R-075 INITIAL SEGMENT.
5. ADDED INTERMEDIATE FIX PICDI/MCW 9.00 DME.
6. CHANGED PICDI INTERMEDIATE COURSE/DISTANCE FROM 354.93/6.46 TO 354.92/6.47.
7. CHANGED PT OUTBOUND COURSE FROM 354.93 TO 354.92.
8. CHANGED FINAL COURSE FROM 354.93 TO 354.92.
9. CHANGED DIST FAF TO MAP AND DIST FAF TO THLD FROM 5.90 TO 5.89.
10. ADDED GS ALT AT PFAF 3200.
11. CHANGED GS ALT AT OM FROM 3103 TO 3099.
12. CHANGED MSA SECTOR 085-355 ALTITUDE FROM 2700 TO 2800.
13. CHANGED LOC MISSED APPROACH POINT FROM "5.90 MILES AFTER SURFF LOM/MCW 2.54 DME" TO "5.89 MILES AFTER SURFF LOM/MCW 2.53 DME."
14. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 2900 THEN CLIMBING LEFT TURN TO 3200 DIRECT SURFF LOM/2.54 DME AND HOLD" TO "CLIMB TO 2900 SEE 8260-10

REASONS:

1,2,6,7,8,9,11,13,14. NEW COORDINATES FOR SURFF LOM.
3,4. IAW 8260.19D, PARA. 264(A)(5).
5. IAW 8260.19D, PARA. 264(A)(1).
10. IAW 8260.19D, PARA. 852(F)(4).
15,20. NOTE NOT REQUIRED.
16. NEW CONTROLLING OBSTACLE.
17. NEW CRITERIA.
18. IMPROVED ACCURACY CODE.
19. IAW 8260.19D, PARA. 855(F)(5).
21. IAW 8260.19D, PARA. 853 (B)(4).

PDF EDIT:
1. ADDED MCW VORTAC TO MAP FOR LOC

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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NOTES, (CONT.):
CHART PLANVIEW NOTE: ADF OR DME REQUIRED.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 36 CATS C/D VISIBILITY 3/8 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING CHARLES CITY ALTIMETER SETTING, INCREASE S-ILS 36 ALL CATS AND S-LOC 36 CATS C/D VISIBILITY 3/8 MILE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1214 THRE: 1193	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MASON CITY, IA	AIRPORT NAME: **MASON CITY MUNI**	**I-MCW**	**ILS OR LOC RWY 36, AMDT 6D**	AMDT: **6C**
				DATED: **07/31/2008**

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

CHANGES CONT.
THEN CLIMBING LEFT TURN TO 3200 DIRECT SURFF LOM/2.53 DME AND HOLD." 15. REMOVED "CHART ASOS" NOTE. 16. INCREASED S-LOC 36 MDA FROM 1600 TO 1700. 17. INCREASE S-LOC 36 CAT C AND D VISIBILITY FROM 3/4 MILE TO 1 MILE. 18. DECREASED CIRCLING CAT A AND B MDA FROM 1720 TO 1700. 19. ADDED CHART NOTE "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHARLES CITY ALTIMETER SETTING AND INCREASE DA 87 FEET AND ALL MDA 100 FEET; INCREASE S-LOC 36 CAT C AND D VISIBILITY 3/8 MILE AND CIRCLING CAT C VISIBILITY BY 1/4 MILE. 20. DELETED NOTE "DME FROM MCW VORTAC". 21. ADDED ALTERNATE MINS STANDARD WITH NOTE.

REASONS:

QUALITY CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.29**

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ARINC PACKET - 424-18 - ILS

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID   123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAD        MCW   K3011490VTHW N43054112W093194754    N43054112W093194754E0060012092     NARMASON CITY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP       123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAEAENRT   JUGTO K30    R   L N43074757W093314428                      E0011     NAR           JUGTO
         SUSAEAENRT   PICDI K30    R     N42564103W093193823                      E0009     NAR           PICDI
         SUSAEAENRT   SURFF K30    R     N43030944W093193897                      E0009     NAR           SURFF LOM
         SUSAEAENRT   WOTVI K30    R   L N43070176W093073865                      E0007     NAR           WOTVI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KMCWK3AMCW     0     065YHN43092810W093195250E005001214         1800018000C    MNAR    MASON CITY MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KMCWK3FI36   AJUGTO 010JUGTOK3EA0E  A    IF MCW K3      27760090        D                18000                  0 NS
         SUSAP KMCWK3FI36   AJUGTO 020PICDIK3EA0EE BL   AF MCW K3      173300902776    D   + 03200                             0 NS
         SUSAP KMCWK3FI36   AMCW   010MCW  K3D 0V       IF                                                18000                  0 NS
         SUSAP KMCWK3FI36   AMCW   020SURFFK3EA0E       TF                                  + 03200                             0 NS
         SUSAP KMCWK3FI36   AMCW   030SURFFK3EA0EE AR   PI IMCWK3      1749007212990100PI  + 03200                             0 NS
         SUSAP KMCWK3FI36   AWOTVI 010WOTVIK3EA0E  A    IF MCW K3      07530090        D                18000                  0 NS
         SUSAP KMCWK3FI36   AWOTVI 020PICDIK3EA0EE BR   AF MCW K3      173300900753    D   + 03200                             0 NS
         SUSAP KMCWK3FI36   I      010PICDIK3EA0E  I    IF IMCWK3      17490137        PI  J 032000320018000                   0 NS
         SUSAP KMCWK3FI36   I      020SURFFK3EA0E  F    CF IMCWK3      1749007235500065PI  H 0320003099        -290MC    K3PN0 NS
         SUSAP KMCWK3FI36   I      030RW36 K3PG0GY M    CF IMCWK3      1749001335500059PI    01256             -290           0 NS
         SUSAP KMCWK3FI36   I      040         0  M     CA                      3549        + 02900                             0 NS
         SUSAP KMCWK3FI36   I      050MC   K3PN0NY  L   DF                                  + 03200                             0 NS
         SUSAP KMCWK3FI36   I      060MC   K3PN0NE  R   HM                      3549T010    + 03200                             0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY   123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KMCWK3GRW36    0065013549 N43090288W093193964+0300    +0335301193000063150IIMCW1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KMCWK3IIMCW1   010950RW36 N43102191W0931939793549N43091512W0931934281500 12390501290E00506301188
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QUALITY CHECKED

CITY AND STATE	ELEVATION: 1214 THRE: 1193	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MASON CITY, IA	AIRPORT NAME: **MASON CITY MUNI**	**1-MCW**	**ILS OR LOC RWY 36, AMDT 6D**	AMDT: **6C**
				DATED: **07/31/2008**

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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```
                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMCWK3SMC   K3PN                0   1752650382526517502825                                                        M
```

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAPNKMCWK3 MC    K3003480HOLW N43030944W093193992                    E0050          NARSURFF
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1214 THRE: 1193	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MASON CITY, IA	AIRPORT NAME: MASON CITY MUNI	1-MCW	ILS OR LOC RWY 36, AMDT 6D	AMDT: 6C
				DATED: 07/31/2008

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	JUGTO	JUGTO	010	IAF	IF		FB					
	JUGTO	PICDI	020		AF	L	FB		277.6()		AA 03200	
	MCW	MCW	010		IF		FB					
	MCW	SURFF	020		TF		FB				AA 03200	
	MCW	SURFF	030	IAF	PI	R	FB		129.9()	010.0	AA 03200	
	WOTVI	WOTVI	010	IAF	IF		FB					
	WOTVI	PICDI	020		AF	R	FB		075.3()		AA 03200	
		PICDI	010	FACF	IF		FB				AA 03200 GI 03200	
		SURFF	020	FAF	CF		FB		355.0()	006.5	GI 03200 GS 03099	
		RW36	030	MAP	CF		FO		355.0()	005.9	AT 01256	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		354.9()		AA 02900	
	MC	050		DF	L	FO				AA 03200	
	MC	060		HM	R	FO		354.9()	T01.0	AA 03200	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MCW	N430541.12	W0931947.54	N4305.685	W09319.792
	JUGTO	N430747.57	W0933144.28	N4307.793	W09331.738
	PICDI	N425641.03	W0931938.23	N4256.684	W09319.637
	SURFF	N430309.44	W0931938.97	N4303.157	W09319.650
	WOTVI	N430701.76	W0930738.65	N4307.029	W09307.644
	RW36	N430902.88	W0931939.64	N4309.048	W09319.661
	IMCW (LOC)	N431021.91	W0931939.79	N4310.365	W09319.663
	MC	N430309.44	W0931939.92	N4303.157	W09319.665

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW36	01193	63

QUALITY CHECKED

CITY AND STATE	ELEVATION: **1214**	**THRE: 1193**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MASON CITY, IA	AIRPORT NAME: **MASON CITY MUNI**		**1-MCW**	**ILS OR LOC RWY 36, AMDT 6D**	AMDT: **6C**
					DATED: **07/31/2008**

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - LOC

```
          1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID    12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ----------------------------------------------------------------------------------------------------------------------------
          SUSAD        MCW   K3011490VTHW N43054112W093194754    N43054112W093194754E0060012092     NARMASON CITY

          1         2         3         4         5         6         7         8         9         0         1         2         3
WP        12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ----------------------------------------------------------------------------------------------------------------------------
          SUSAEAENRT   JUGTO K30    R   L N43074757W093314428                    E0011     NAR          JUGTO
          SUSAEAENRT   PICDI K30    R     N42564103W093193823                    E0009     NAR          PICDI
          SUSAEAENRT   SURFF K30    R     N43030944W093193897                    E0009     NAR          SURFF LOM
          SUSAEAENRT   WOTVI K30    R   L N43070176W093073865                    E0007     NAR          WOTVI

          1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT   12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ----------------------------------------------------------------------------------------------------------------------------
          SUSAP KMCWK3AMCW     0     065YHN43092810W093195250E005001214         1800018000C    MNAR    MASON CITY MUNI

          1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT   12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ----------------------------------------------------------------------------------------------------------------------------
          SUSAP KMCWK3FL36   AJUGTO 010JUGTOK3EA0E  A    IF MCW K3       27760090        D              18000                0 NS
          SUSAP KMCWK3FL36   AJUGTO 020PICDIK3EA0EE BL   AF MCW K3       173300902776    D   + 03200                          0 NS
          SUSAP KMCWK3FL36   AMCW   010MCW  K3D 0V       IF                                             18000                0 NS
          SUSAP KMCWK3FL36   AMCW   020SURFFK3EA0E       TF                                     + 03200                      0 NS
          SUSAP KMCWK3FL36   AMCW   030SURFFK3EA0EE AR   PI IMCWK3       1749007212990100PI  + 03200                          0 NS
          SUSAP KMCWK3FL36   AWOTVI 010WOTVIK3EA0E  A    IF MCW K3       07530090        D              18000                0 NS
          SUSAP KMCWK3FL36   AWOTVI 020PICDIK3EA0EE BR   AF MCW K3       173300900753    D   + 03200                          0 NS
          SUSAP KMCWK3FL36   L      010PICDIK3EA0E  I    IF IMCWK3       17490137        PI  + 03200    18000                 0 NS
          SUSAP KMCWK3FL36   L      020SURFFK3EA0E  F    CF IMCWK3       1749007235500065PI  + 03200              MC    K3PN0 NS
          SUSAP KMCWK3FL36   L      030RW36 K3PG0GY M    CF IMCWK3       1749001335500059PI    01256          -311          0 NS
          SUSAP KMCWK3FL36   L      040        0  M      CA                      3549          + 02900                      0 NS
          SUSAP KMCWK3FL36   L      050MC   K3PN0NY  L   DF                                    + 03200                      0 NS
          SUSAP KMCWK3FL36   L      060MC   K3PN0NE  R   HM                      3549T010      + 03200                      0 NS

          1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY    12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ----------------------------------------------------------------------------------------------------------------------------
          SUSAP KMCWK3GRW36    0065013549 N43090288W093193964+0300    +033530119300006315OIIMCW1

          1         2         3         4         5         6         7         8         9         0         1         2         3
ILS       12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ----------------------------------------------------------------------------------------------------------------------------
          SUSAP KMCWK3IIMCW1   010950RW36 N43102191W0931939793549N43091512W0931934281500 12390501290E00506301188
```

CITY AND STATE	ELEVATION: 1214 THRE: 1193	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MASON CITY, IA	AIRPORT NAME: MASON CITY MUNI	I-MCW	ILS OR LOC RWY 36, AMDT 6D	AMDT: 6C
				DATED: 07/31/2008

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
LOC STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMCWK3SMC   K3PN                0   1752650382526517502825                                                                M
                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAPNKMCWK3 MC    K3003480HOLW N43030944W093193992                      E0050          NARSURFF
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1214 THRE: 1193	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MASON CITY, IA	AIRPORT NAME: MASON CITY MUNI	I-MCW	ILS OR LOC RWY 36, AMDT 6D	AMDT: 6C
				DATED: 07/31/2008

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	JUGTO	JUGTO	010	IAF	IF		FB					
	JUGTO	PICDI	020		AF	L	FB		277.6()		AA 03200	
	MCW	MCW	010		IF		FB					
	MCW	SURFF	020		TF		FB				AA 03200	
	MCW	SURFF	030	IAF	PI	R	FB		129.9()	010.0	AA 03200	
	WOTVI	WOTVI	010	IAF	IF		FB					
	WOTVI	PICDI	020		AF	R	FB		075.3()		AA 03200	
		PICDI	010	FACF	IF		FB				AA 03200	
		SURFF	020	FAF	CF		FB		355.0()	006.5	AA 03200	
		RW36	030	MAP	CF		FO		355.0()	005.9	AT 01256	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		354.9()		AA 02900	
	MC	050		DF	L	FO				AA 03200	
	MC	060		HM	R	FO		354.9()	T01.0	AA 03200	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MCW	N430541.12	W0931947.54	N4305.685	W09319.792
	JUGTO	N430747.57	W0933144.28	N4307.793	W09331.738
	PICDI	N425641.03	W0931938.23	N4256.684	W09319.637
	SURFF	N430309.44	W0931938.97	N4303.157	W09319.650
	WOTVI	N430701.76	W0930738.65	N4307.029	W09307.644
	RW36	N430902.88	W0931939.64	N4309.048	W09319.661
	IMCW (LOC)	N431021.91	W0931939.79	N4310.365	W09319.663
	MC	N430309.44	W0931939.92	N4303.157	W09319.665

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW36	01193	63

QUALITY CHECKED

CITY AND STATE	ELEVATION: **1214**	**THRE: 1193**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:	
MASON CITY, IA	AIRPORT NAME: **MASON CITY MUNI**		**I-MCW**	**ILS OR LOC RWY 36, AMDT 6D**	AMDT:	**6C**
					DATED:	**07/31/2008**

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	MCW VORTAC	SURFF LOM/MCW	1. TWR (19-001289)	430528.00N/0932359.00W	1665 (2C)	1000	XP535	3200
		VORTAC 2.53 DME	2. TERRAIN	430303.00N/0932506.00W	1309 (1300)		AS1500	2800
INITIAL: ARC	JUGTO/MCW	PICDI/MCW VORTAC	3. TWR (19-001851)	425708.03N/0932043.32W	1572 (2C)	1000	XP628	3200
	9.00 DME CCW	9.00 DME	4. TERRAIN	430709.00N/0933100.00W	1342 (1300)		AS1500	2800
INITIAL: ARC	WOTVI/MCW VORTAC	PICDI/MCW VORTAC	5. TWR (19-001385)	425635.00N/0932115.00W	1512 (5D)	1000	XP688	3200
	9.00 DME CW	9.00 DME	6. TERRAIN	425445.00N/0932418.00W	1283 (1300)		AS1500	2800
INTERMEDIATE: PT	10 NM	SURFF LOM/MCW	3. TWR (19-001851)	425708.03N/0932043.32W	1572 (2C)	500	XP1128	3200
		VORTAC 2.53 DME	7. TERRAIN	425351.00N/0932351.00W	1287 (1300)		AS1500	2800
INTERMEDIATE	PICDI/MCW VORTAC	SURFF LOM/MCW	3. TWR (19-001851)	425708.03N/0932043.32W	1572 (2C)	500	XP1128	3200
	9.00 DME	VORTAC 2.53 DME	8. TERRAIN	425839.00N/0932318.00W	1300 (1300)		AS1500	2800
FINAL: ILS	SURFF LOM/MCW	RW36				ASC		1393/200
	VORTAC 2.53 DME							
FINAL: LOC	SURFF LOM/MCW	5.89 MILES AFTER	9. AAO	430505.00N/0932023.00W	1449 (2C)	250		1700
	VORTAC 2.53 DME	SURFF LOM						
2. PROCEDURE TURN	SURFF LOM	10 NM	1. TWR (19-001289)	430528.00N/0932359.00W	1665 (2C)	1000	XP535	3200
			10. TERRAIN	424815.00N/0932418.00W	1336 (1300)		AS1500	2800
3. MISSED APPROACH MAP:	DA / 5.89 MILES	SURFF LOM/MCW				ASC		3200
	AFTER SURFF LOM	VORTAC 2.53 DME	11. WNDML (19-020106)	432009.34N/0931910.39W	1668 (4D)	1000		2700
ELEV:	1223/1450		12. TERRAIN	432012.58N/0932444.78W	1333 (1300)		AC1500	2800

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	486	13. SILO (KMCWT0606)	431047.60N/0932102.84W	1342 (2C)	300	SI	1700
CATEGORY B	1.5 NM	450	486	14. TWR (KMCWT0592)	430803.62N/0932115.19W	1361 (2C)	300	SI	1700
CATEGORY C	1.7 NM	450	546	15. TWR (19-000339)	430847.00N/0931721.00W	1458 (1A)	300		1760
CATEGORY D	2.3 NM	550	566	16. TWR (19-002113)	430742.83N/0932127.81W	1474 (1A)	300		1780
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: **MC LOM**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
085-355	WDML (19-020489)	299/ 22.9	1771 (5D)	2800					
355-085	TWR (19-000404)	043/ 29.0	2799 (1D)	3800					

QUALITY CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MASON CITY, IA	ELEVATION: 1214 AIRPORT NAME: MASON CITY MUNI	I-MCW	ILS OR LOC RWY 36, AMDT 6D	ACE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZMP ARTCC **FOD FSS**	N W S / OTHER: **ASOS** F A A A / C	SOURCE: **KMCW / KCCY** DISTANCE: **0 / 32.07** HOURS REMOTE OPERATION: **0 / 24**
SATISFACTORY ON:		
X V H F / X U H F / H F	LOCATION: **KMCW**	ADJUSTMENT: **0 / 0**

4. MONITOR STATUS		
PRIMARY NAVAID: **I-MCW**		
MONITOR POINT: **MOCC**		
HRS OPTN:	CAT 1	**24**
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	**MALS 18 (PCL) MALSR 36 (PCL)**
X	**HIRL 18 (PCL), 36 (PCL)**
X	**MIRL 12 (PCL), 30 (PCL)**
X	**REIL 12 (PCL)**
	TDZ
	C/LINE
X	**OTHER (SPECIFY)** **TAXI WAY 12 PAPI-4L 12 (PCL), 36 (PCL), 30 (PCL) VASI-4L 18 (PCL)**

6. RUNWAY MARKINGS	
BASIC	
ALL WEATHER	**PIR-F 36**
INSTRUMENT	**NPI-F 12, 18, 30**

7. RUNWAY VISUAL RANGE	
APPROACH	
MIDFIELD	
ROLL OUT	

8. GLIDE PATH		
GP ANGLE: **2.90**		ELEV RWY THRESHOLD: **1193.0**
DISTANCE FROM RWY: **1239**		ELEV GP ANTENNA: **1192.9**
		THRESHOLD CROSSING HEIGHT: **62.6**

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: **NONE**

PART D - PREPARED BY:	DATE:
TERENCE D. SHARP (JOHN JOHNSON)	**12/09/2011**
TITLE: **AERONAUTICAL INFORMATION SPECIALIST**	OFFICE: **AJV-351**

PART C - REMARKS:

VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME,

PRECISION/VERTICAL PATH PROCEDURE.
SOURCE: KMCW (ASOS)/KCCY (AWOS-3)
SERVICE-A: YES/YES
DISTANCE: ON FIELD/32.07 NM
HRS OPTN: 24/24
ADJUSTMENT: 0 FT/86.14 FT
RASS (PRESSURE PATTERNS ARE THE SAME)
KMCW (1213.5 MSL)
KCCY (1125.1 MSL)

NO ADDITIONAL AIRSPACE REQUIRED.

VGSI 2.90/TCH 62

OBS #9 FROM PREVIOUS AMENDMENT TO RETAIN CURRENTLY PUBLISHED LOC MDA.

1980 MAGVAR 4 37'E
2010 MAGVAR 1 8'E
2015 MAGVAR 0 33E
1980 MAGVAR RETAINED PER FPT EMAIL REQUEST.

XP = TO MAINTAIN PREVIOUSLY PUBLISHED MIN ALT.

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JUGTO **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 430747.57N/0933144.28W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MASON CITY	MCW	VORTAC	H	277.61	283.61	9.00	9.00		3000	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V120	1				(US)
IAP	ILS OR LOC RWY 36	1		KMCW	MASON CITY	IA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 09/29/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (JOHN JOHNSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: ZAU ARTCC
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PICDI **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 425641.03N/0931938.23W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MASON CITY	I-MCW	LOC		174.92	179.92		13.68		3200	5700
2	MASON CITY	MCW	VORTAC	H	173.27	179.27	9.00	9.00		3200	6000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 36	1, 2		KMCW	MASON CITY	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 09/29/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (JOHN JOHNSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: ZAU ARTCC
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SURFF LOM **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 430309.44N/0931938.97W **TYPE:** INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SURFF	MC	LOM								17500
2	MASON CITY	I-MCW	LOC		174.92	179.92		7.21	43786	3200	5700
3	MASON CITY	MCW	VORTAC	H	171.63	177.63	2.53	2.53		3200	5700

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S	MC	LOM	174.92	354.92	R	1		2900	10000	4	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (19-001851)	425708.03N/0932043.32W	1572	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE SURFF LOM.
ACTUAL FACILITY LOCATION IS 430309.44N/0931939.92W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 36	1, 2, 3	1	KMCW	MASON CITY	IA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX COORDINATES BASED ON NEW SURVEY.
UPDATED FAC2 MAG BRG AND TRUE BRG BASED ON NEW COORDINATES.
ADDED FAC2 DIST FROM FAC INFORMATION.
RAISED FAC2 MRA FROM 1300 TO 3200.
REMOVED PAT2 PATTERN AND CONTROLLING OBSTRUCTION BASED ON NO KNOWN USE.
UPDATED PAT 1 TEMPLATES PER CURRENT CRITERIA.
CHANGED PAT 1 AIRSPEED FROM 230 TO 200.
ADDED "COORDINATES REFLECT LOCATION..." NOTES.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 09/29/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (JOHN JOHNSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WOTVI **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 430701.76N/0930738.65W **TYPE:** DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MASON CITY	MCW	VORTAC	H	075.34	081.34	9.00	9.00		3000	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V138	1				(US)
IAP	ILS OR LOC RWY 36	1		KMCW	MASON CITY	IA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 09/29/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (JOHN JOHNSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: ZAU ARTCC
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MASON CITY VORTAC **STATE:** IA **COUNTRY:** US

LATITUDE/LONGITUDE: 430541.12N/0931947.54W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

INFO ONLY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	MASON CITY	MCW	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	MCW	VORTAC	278.00	098.00	L	1-1 1/2		3000	45000	4	29
2	S	MCW	VORTAC	176.00	356.00	R	1		3000	6000	4	5
3	S	MCW	VORTAC	175.00	355.00	R	1		3000	6000	4	5
4	S		WP	176.00	356.00	R		4	3800	6000	5	6
5	W		WP	278.00	098.00	L		10	15000	45000	16	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
1	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
2	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
3	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
4	200	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
4	310	TOWER (19-001289)	430528.00N/0932359.00W	1665	2C
5	265	TOWER (19-001056)	431004.00N/0930606.00W	1971	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST
PAT 5 ATC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
4	RNAV (GPS) RWY 18	KMCW	MASON CITY	IA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DES MOINES			KDSM	DES MOINES	IA (US)
DP	ORSKY			KANE	MINNEAPOLIS	MN (US)
DP	ORSKY			KFCM	MINNEAPOLIS	MN (US)
DP	ORSKY			KMSP	MINNEAPOLIS	MN (US)
DP	ORSKY			KSTP	ST PAUL	MN (US)
EN ROUTE	J148					(US)
EN ROUTE	J16		1			(US)
EN ROUTE	J25					(US)
EN ROUTE	J90					(US)
EN ROUTE	V120		1			(US)
EN ROUTE	V13					(US)
EN ROUTE	V138					(US)
EN ROUTE	V158					(US)
EN ROUTE	V161					(US)
EN ROUTE	V505					(US)
IAP	RNAV (GPS) RWY 12			KCCY	CHARLES CITY	IA (US)
IAP	NDB RWY 14			KCAV	CLARION	IA (US)
IAP	NDB RWY 33			KFXY	FOREST CITY	IA (US)
IAP	RNAV (GPS) RWY 33			KFXY	FOREST CITY	IA (US)
IAP	VOR/DME-A			KFXY	FOREST CITY	IA (US)
IAP	VOR/DME RWY 35			KHPT	HAMPTON	IA (US)
IAP	ILS OR LOC RWY 36			KMCW	MASON CITY	IA (US)
IAP	LOC/DME BC RWY 18		2	KMCW	MASON CITY	IA (US)
IAP	RNAV (GPS) RWY 18		4	KMCW	MASON CITY	IA (US)
IAP	VOR RWY 36		2	KMCW	MASON CITY	IA (US)
IAP	VOR/DME RWY 18		3	KMCW	MASON CITY	IA (US)
IAP	ILS OR LOC RWY 12			KALO	WATERLOO	IA (US)
IAP	VOR RWY 36			KALO	WATERLOO	IA (US)
IAP	RNAV (GPS) RWY 35			KAEL	ALBERT LEA	MN (US)
IAP	VOR/DME RWY 35			KAEL	ALBERT LEA	MN (US)
IAP	ILS OR LOC RWY 35			KAUM	AUSTIN	MN (US)
IAP	RNAV (GPS) RWY 17			KAUM	AUSTIN	MN (US)

QUALITY 1 CHECKED

IAP	RNAV (GPS) RWY 35		KAUM	AUSTIN	MN (US)
STAR	BULLZ (RNAV)	5	KORD	CHICAGO	IL (US)
STAR	JANESVILLE	1	KORD	CHICAGO	IL (US)
STAR	KASPR		KMSP	MINNEAPOLIS	MN (US)

REQUIRED CHARTING: SECTIONAL, DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 10/20/2011

REASON FOR REVISION:
UPDATE NAVAID COORDINATES DUE TO 3RD PARTY SURVEY DTD 12/4/2009 AND NFDD 086 DTD 5/4/2011.
UPDATED PAT 5 LENGTH DME 8 TO 10, HOLDING ALTITUDE 14000 TO 15000, TEMPLATES MIN 14 TO 16 AND CONTROLLING OBSTRUCTION DATA.
UPDATED FIX USE.
ADDED SECTIONAL TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 06/30/2011 **OFFICE:** AJV-353 **NAME:** THOMAS KIRKPATRICK

APPROVED BY: **DATE:** 04/12/2011 **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU, ZMP
ATC FACILITY:
OTHER:

QUALITY 1 CHECKED